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(FILE 'USPAT' ENTERED AT 13:41:41 ON 28 AUG 96)

L1 4 S 5404450/PN OR 5517423/PN OR 5495239/PN OR 5345409/PN
L2 5 S 5455688/PN OR 5349673/PN OR 5504669/PN OR 5421018/PN OR
551
L3 1 S 5504669/PN
L4 9 S L1 OR L2 OR L3
L5 86878 S PROCESS!R
L6 1 S 5160926/PN
L7 532 S PROTECTIVE RELAY
L8 130889 S METER
L9 2329 S (MULTI PORT) OR (MULTI PORT)
L10 265759 S COMMUNICATION
L11 4706 S L10 (3A) L5
L12 6 S L9 (5A) L11
L13 604 S L10 (W) L5
L14 1364 S (QUARTS) OR (QUAD UNIVERSAL ASYNCHRONOUS RECEIVER TRANSM
ITT
L15 67066 S MICROPROCESS!R
L16 314 S COMMAND LOGIC
L17 85 S (IRIG) OR (IRIG B)
L18 96 S IED
L19 0 S IED (P) INTELLIGENT ELECTRONIC
L20 0 S IED AND INTELLIGENT ELECTRONIC
L21 1625 S SUBSTATION
L22 43 S INTELLIGENT ELECTRONIC
L23 0 S IED PORT
L24 1 S L11 AND L4
L25 5 S L5 AND L4
L26 0 S L7 AND L4
L27 8 S L11 AND L7
L28 0 S L7 (P) L4
L29 0 S L11 AND L14
L30 0 S L7 AND L14
L31 0 S L22 AND L14
L32 2 S L14 AND L21
L33 16 S L11 (P) L9
L34 0 S L7 AND L33
L35 0 S L14 AND L33
L36 0 S L16 AND L33
L37 0 S L18 AND L33
L38 0 S L21 AND L33
L39 0 S L22 AND L33
L40 0 S L17 AND L33
L41 0 S L8 AND L33
L42 8 S L15 AND L33

L43 11 S ZOCHOLL, ?/IN
L44 11 S ZOCHOLL, S?/IN
L45 28 S GUZMAN, A?/IN
L46 3 S GUZMAN, AR?/IN
L47 0 S HOU, DAQ?/IN
L48 12 S HOU, D?/IN
L49 1 S HOU, DA?/IN
L50 0 S POGGI, E?/IN
L51 19 S POGGI, ?/IN
L52 32 S ROBERTS, JEFF?/IN
L53 5 S ROBERTS, JEFFREY B./IN
L54 21 S L15 AND L17
L55 3 S L15 (P) L17
L56 0 S L54 AND L21
L57 0 S L7 AND L17
L58 0 S L18 AND L17
L59 0 S L18 AND L21
L60 10 S L18 AND L15
L61 22 S L10 AND L18
L62 0 S L22 AND (L43 OR L53)
L63 0 S L18 AND (L43 OR L53)
L64 0 S L17 AND (L43 OR L53)
L65 0 S L14 AND L7
L66 0 S L14 AND L22
L67 0 S L7 AND L22
L68 66 S L21 AND L7
L69 0 S L68 AND L14
L70 0 S L68 AND L22
L71 11 S L15 AND L68

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downloaded tasks

3	5,343,319	Aug 30 1994 Jun 14 1993	<u>359/152</u>	Apparatus for adapting an electrical communications port to an optical communications port
4	5,396,630	Mar 7 1995 Oct 6 1992	<u>395/700</u>	Method and system for object management across process boundaries in a data processing system
5	5,390,081	Feb 14 1995 Mar 22 1993	<u>361/775</u>	Fault-tolerant power distribution system for rack-mounted hardware
6	5,519,880	May 21 1996 Sep 26 1994	<u>395/800</u>	Parallel processing system and data transfer method which reduces bus contention by use of data relays having plurality of buffers
7	5,388,220	Feb 7 1995 Mar 18 1992	<u>395/800</u>	Parallel processing system and data transfer method which reduces bus contention by use of data relays having plurality of buffers
8	5,535,334	Jul 9 1996 Jun 6 1995	<u>395/200.15</u>	Fault-tolerant system-to-system communications system and method utilizing multiple communications methods to transfer a single message
9	5,276,898	Jan 4 1994 Jul 26 1990	<u>395/800</u>	System for selectively compressing data frames based upon a current processor work load identifying whether the processor is too busy to perform the compression
Status: certificate of correction has been issued				
10	5,457,786	Oct 10 1995 Dec 30 1993	<u>395/280</u>	Serial data interface with circular buffer

11	<u>5,517,423</u>	May 14 1996 Jan 11 1994	<u>364/492</u>	Power distribution system control network
12	5,546,444	Aug 13 1996 Mar 11 1994	<u>379/59</u>	Methods and apparatus for communicating data via a cellular network control channel
13	<u>5,495,239</u>	Feb 27 1996 Aug 2 1994	<u>340/870.02</u>	Method and apparatus for communicating with a plurality of electrical metering devices and a system control center with a mobile node
14	5,428,638	Jun 27 1995 Aug 5 1993	<u>315/224</u>	Method and apparatus for reducing power consumption in digital communications devices
15	5,526,401	Jun 11 1996 Oct 31 1994	<u>379/59</u>	Methods and apparatus for acknowledging a paging message via a cellular network control channel
16	5,297,260	Mar 22 1994 Jan 7 1991	<u>395/293</u>	Processor having a plurality of CPUS with one CPU being normally connected to common bus
17	5,331,136	Jul 19 1994 Jun 4 1993	<u>235/375</u>	Hand-held data capture system with interchangeable modules
18	<u>5,345,409</u>	Sep 6 1994 Mar 25 1993	<u>364/736</u>	Programmable digital signal processor system for processing electrical power signals
19	5,511,069	Apr 23 1996 Jun 30 1994	<u>370/24</u>	Method and apparatus for controlling a communication device through a modem processor
20	5,404,515	Apr 4 1995 Apr 30 1992	<u>395/650</u>	Balancing of communications transport connections over multiple central processing units

21	5,319,775	Jun 7 1994 Jul 22 1991	<u>395/183.07</u>	Centralized diagnostic system for loosely coupled processors
22	5,329,431	Jul 12 1994 Sep 14 1993	<u>362/85</u>	Computer controlled lighting system with modular control resources Status: certificate of correction has been issued
23	5,487,153	Jan 23 1996 Jun 24 1994	<u>395/250</u>	Neural network sequencer and interface apparatus
24	5,465,081	Nov 7 1995 Oct 6 1992	<u>340/825.05</u>	Multicomponent wireless system with periodic shutdown of transmitting and receiving modes
25	5,423,007	Jun 6 1995 Dec 4 1991	<u>395/309</u>	Multiprocessor computer system having improved coupling arrangement for independently operating local processor systems

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CUSTOMER REQUEST SUMMARY

Your request was:

☐ **Product Code:**

E081

☐ **Keyword list:**

protective relays electronic device intelligent electronic device
microprocessor power system database power system multi-port
communications processor multi-port processor

☐ **Text:**

Communication processor apparatus for integrating communications between electronic devices having data communication. Electronic devices include protective relays, meters, terminal devices, and a computer. Protective relays are microprocessor based and referred to as digital relays or computer relays. Information is stored in the memory of the relay. Database capability and ability to process information received from intelligent electronic device.

E081 SUBJECT SEARCH LIST REPORT - 1994 to PRESENT DATA

Top 3 Classes:

Class: <u>395/800</u>	Frequency: 3
Class: <u>395/750</u>	Frequency: 2
Class: <u>235/380</u>	Frequency: 2

Top closest patents:

Ref	Patent Id	Issue/File	Class	Title
1	5,455,687	Oct 3 1995 Aug 5 1992	<u>358/438</u>	Method for transferring data between electronic filing systems using facsimile communications protocol
2	5,421,018	May 30 1995 Nov 6 1992	<u>395/800</u>	Data communication method and apparatus having improved control

over a detachable terminal
device

3	5,288,978	Feb 22 1994 Oct 2 1991	<u>235/380</u>	Mutual authentication system and method which checks the authenticity of a device before transmitting authentication data to the device
4	5,511,069	Apr 23 1996 Jun 30 1994	<u>370/24</u>	Method and apparatus for controlling a communication device through a modem processor
5	5,412,805	May 2 1995 Aug 3 1992	<u>395/600</u>	Apparatus and method for efficiently allocating memory to reconstruct a data structure
6	5,473,146	Dec 5 1995 Apr 4 1994	<u>235/383</u>	System and method for connecting product information with electronic shelf displays
7	5,495,239	Feb 27 1996 Aug 2 1994	<u>340/870.02</u>	Method and apparatus for communicating with a plurality of electrical metering devices and a system control center with a mobile node
8	5,493,105	Feb 20 1996 Apr 19 1994	<u>235/375</u>	Electronic business card system
9	5,424,903	Jun 13 1995 Jan 12 1993	<u>361/166</u>	Intelligent power switcher
10	5,461,705	Oct 24 1995 May 15 1992	<u>395/115</u>	Information processing device in an electronic apparatus utilizing an accessory control device and methods of application
11	5,519,880	May 21 1996 Sep 26 1994	<u>395/800</u>	Parallel processing system and data transfer method which reduces bus contention by use of data

relays having plurality of buffers

12	5,548,753	Aug 20 1996 Sep 14 1994	<u>395/600</u>	Automatic electronic mail notification of database events
13	5,381,478	Jan 10 1995 Feb 6 1992	<u>380/49</u>	Cipher communication system for transaction data
14	5,388,220	Feb 7 1995 Mar 18 1992	<u>395/800</u>	Parallel processing system and data transfer method which reduces bus contention by use of data relays having plurality of buffers
15	5,293,250	Mar 8 1994 Mar 11 1992	<u>358/402</u>	A system for notifying a destination terminal that electronic mail has reached a host computer
16	5,311,595	May 10 1994 Nov 5 1991	<u>380/25</u>	Method of transferring data, between computer systems using electronic cards
Status: certificate of correction has been issued				
17	5,448,721	Sep 5 1995 Jan 14 1993	<u>371/20.1</u>	Duplicated communications processing system and communications system including the duplicated communications processing system
18	5,377,326	Dec 27 1994 Jun 22 1993	<u>395/200.01</u>	Electronic apparatus with remote data supplementation/update selection and error display
19	5,504,669	Apr 2 1996 Jul 7 1992	<u>364/134</u>	Information processing device and accessory control device
20	5,461,662	Oct 24 1995 Aug 10 1993	<u>379/9</u>	Electronic exchange apparatus

21	5,473,143	Dec 5 1995 Oct 4 1993	<u>235/380</u>	ATM/POS based electronic mail system
22	5,343,319	Aug 30 1994 Jun 14 1993	<u>359/152</u>	Apparatus for adapting an electrical communications port to an optical communications port
23	5,455,466	Oct 3 1995 Jul 29 1993	<u>307/104</u>	Inductive coupling system for power and data transfer
24	5,410,713	Apr 25 1995 Jan 2 1992	<u>395/750</u>	Power-management system for a computer
25	5,437,040	Jul 25 1995 Jan 31 1994	<u>395/750</u>	Electronic system with variable threshold power failure signaling

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